RESCUE SYSTEMS 2 SITE REQUIREMENTS

1. The following are minimum requirements for a Rescue Systems 2 Training Site.
    a. The facilities and props for each module should be in close proximity to each other to facilitate time frames.
2. The requesting agency assumes all responsibility, liability, and maintenance for the engineering design, strength, stability, and adequacy of all props including anchor points and tie offs.
3. The requesting agency further assumes all responsibility, liability, and maintenance for all tools, equipment and supplies used at the site for the delivery of Rescue Systems 2 classes.
    a. This includes, but is not limited to, power tools, hand tools, ladders, ropes, rescue hardware and shoring and cribbing materials.
4. ORIENTATION
    a. Classroom
    b. Audiovisual equipment
    c. Wash areas
    d. Bathrooms
    e. Rehabilitation area
    f. Safe and adequate parking
5. LIFTING AND MOVING HEAVY OBJECTS
    a. Three (3) 20' x 20' concrete pads with a 10’ diameter buffer area at grade level (may be contiguous)
        (a) Concrete or asphalt
    b. Two (2) 5' x 8' x 12" concrete reinforced slabs (6,000 pounds each).
    c. One (1) 4’ x 8’ minimum, solid concrete reinforced cylinder (15,000 lbs)
        (a) This can be accomplished by filling the 4’ x 8’ aqua conduit with concrete
    d. One (1) 5’ x 10’ x 5 ½” concrete reinforced slab
    e. Any combination of props to meet the KSA’s of the final practical exercise
6. BREAKING, BREACHING, BURNING AND CUTTING
    a. Working area at grade level, 20' long x 20' wide.
        (a) Concrete, asphalt, or unimproved ground.
        (b) Length of work area is dependent on the length of the pipe-shaped props.
    b. Four (4) concrete pipes or concrete vaults
        (a) 48" diameter.
        (b) 8' long.
    c. Twelve (12) re-enforced concrete slabs
        (a) 4’ x 4’ x 6” minimum with a maximum thickness of 8”.
        (b) #3 rebar placed 12” on center
        (c) 5 sack mix
        (d) 2,500 psi

BREAKING, BREACHING, BURNING AND CUTTING – continued

d. Twelve (12) re-enforced concrete slabs
    (a) 4’ x 4’ x 3” minimum with a maximum thickness of 6”
    (b) #3 rebar placed 12” on center
    (c) 5 sack mix
    (d) 2,500 psi
e. Two (2) steel plates
    (a) ¼” x 4’ x 8’
    (b) can be scrap material
f. Two (2) Steel I-beams
    (a) Various lengths
    (b) Can be scrap material
g. Ten (10) feet wire rope
    (a) ½” diameter
h. Two (2) steel siding / decking
    (a) 10’ x 2’ x 20 gauge
i. Twelve (12) wood dunnage
    (a) 4” x 4” x 8’

7. SHORING
    a. Structure(s) adequate for simultaneous operations of interior and exterior shoring systems that is of sound and safe engineering design.
        (a) Area large enough to accommodate lumber supply (near cutting station).
    b. Interior Shores
        (a) Working Area: 20’ x 20’ minimum with 8’ ceiling.
    c. Double T Spot Shore
        (a) Area with simulated or actual joist(s) to construct one (1) Double T Spot Shore
    d. Vertical shores.
        (a) Area with simulated or actual joist(s) to set one (1) vertical shore with three (3) posts.
    e. Laced Post Shore.
        (a) Area with simulated or actual joist(s) to construct one (1) Laced Post Shore
    f. Window, Door and Horizontal Shores.
        (a) Two window openings 2’ to 4’ wide
            1. At least one opening to be racked 10 to 15 degrees from plumb
        (b) Two door openings 30” to 48” wide.
            1. At least one opening to be racked 10 to 15 degrees from plumb

SHORING, continued

g. Sloped Surface Shore.
   (a) 20’ x 20’ working area with a 12’ wide x 12’ long sloped surface.
   (b) Configured so that the sloped surface is no shorter than 3' in height at the low end.
   (c) Slope angle to be at least 6" in 10' (3 deg, 5%) to a max of 120" in 10' (45 deg. 100%)"

h. Raker shores.
   (a) One 16' high minimum x 16’ long wall
   (b) One 16’ high x 16’ long wall raked 5 to 15 degrees from plum
   (c) 20’ x 20’ working area

i. Cutting station and table.
   (a) 20’ x 20’ working area.
   (b) Cutting table construction as per student/instructor manual.

SITE DEVIATION

1. In the event that a training site has a facility, structure, or prop that does not comply with the Rescue Systems 2 Site Requirements and Equipment Standards, the site has the opportunity to apply for a site deviation.
2. A Rescue Systems 2 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting site deviation. This letter must describe the site deviation in detail by listing:
   a. The need and parameters of the deviation.
   b. New or revised lesson plans linked to the deviation that ensure consistency with the standards, Terminal Objective and Enabling Objectives of the approved Rescue Systems 2 curriculum.
   c. Demonstration, either live or through visual aids, of any deviated technique or procedure.
3. The Chief of State Fire Training will review the request for site deviation.
   a. Any deficiencies will be appropriately documented and discussed with the Rescue Systems 2 Senior Instructor or designee requesting the site deviation.
   b. If site deviation is denied, a provisional accreditation may be granted at this time.
   c. If a site is not approved, they have three (3) months to comply with the site requirements identified as deficient in the inspection report.

EQUIPMENT STANDARDS

1. The equipment listed below is the minimum for each Rescue Systems 2 Training Site.
2. Student safety is of paramount importance when conducting the type of high-risk training associated with the Rescue Systems 2 course.
3. All PPE shall be the responsibility of the student and shall meet agency and site requirements
4. Lumber list does not include material for prop construction

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
AUDIO/VISUAL						
Power Point® Projector and computer	or Large Screen TV with Computer Interface Device, Compatible with Computer Format					
Screen	Classroom					
White Board	Classroom					
Flip Charts w/ Markers	Work Stations	1	1	1	1	4
CONSUMABLES						
Common nails	8d	10 lbs	10 lbs			20 lbs
Common nails	16d	15 lbs	15 lbs			30 lbs
Duplex nails	8d	100 lbs	100 lbs			200 lbs
Duplex nails	16d	100 lbs	100 lbs			200 lbs
Nails, pneumatic	8d, full head type nails	½ case	½ case			1 case
Nails, pneumatic	16d, full head type nails	½ case	½ case			1 case
Nails, powder actuated (Optional)	2 ½" with washers	48				48
Nails, powder actuated (Optional)	3" with washers	48				48
Powder actuated Charges (Optional)	22 cal	96				96
Lumber	6" x 6" x 16'	10	10			20
Lumber	4" x 4" x 16'	12	12			60
Lumber	4" x 4" x 14'	15	15	4		34
Lumber	4" x 4" x 10'	12	12			24
Lumber	2" x 6" x 16'	30	30			60
Lumber	2" x 4" x 12'	20	20			40
Lumber	2" x 4" x 10'	5	5			10
Lumber	2" x 4" x 16'	12	12			24
Lumber markers		12	12			24
Plywood	4' x 8' x ¾"	4	4			8
Plywood	2' x 2' x ¾" (size of air bag)			4		4
Plywood gussets	12" x 12" x ¾"	36	36			72
Plywood gussets	6" x 12" x ¾"	36	36			72
Cleats	2" x 4" x 12"	12	12			24
Drinking cups		50	50	50	50	200
Gasoline – pre mix	5 gallon – safety can - funnel	1			1	2
Gasoline - unleaded	5 gallon – safety can - funnel	1			1	2
Anchors	Concrete wedge anchors ½" x 5 ½"				48	48
Eye Nuts	Female H/D ½" eye nuts				12	12
Rotary Hammer bits	½" Carbide Tip Masonry Bits	1			6	7
Rotary Hammer bits	¾" Carbide Tip Masonry Bits	1			4	5
Rotary Hammer bits	1 1/8" Carbide Tip Masonry Bits	1			4	5
Rotary Hammer bit (optional)	2" Carbide Tip Masonry Bit				1	1

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
NON-CONSUMABLES						
Cribbing	4" X 4" X 18" (24" recommended)			140	24	164
Cribbing	2" X 4" X 18" (24" recommended)			50	12	62
Cribbing	4" X 4" X 9"			25		25
Cribbing	2" X 4" X 9"			25		25
Wedges	4" X 4" X 18"	12 sets		24 sets	12 sets	48 sets
Wedges	2" X 4" X 12"	12 sets	24 sets	24 sets	12 sets	72 sets
Picket, steel	1" X 4'	12	12	Optional	4	28
Fire extinguishers	Dry Chemical				1	1
Fire extinguishers	Water can				1	1
First Aid Kit						1
Rescue manikin				1	1	2
Rescue litter or Sked				Optional	1	1
Water jug	5 gallon	1	1	1	1	4
Tarps / salvage covers	Cover a 24' x 24' area	1	1	1	2	5
TOOLS						
Anchor kit	1 -Wrench (per manufactures specifications			1		1
Air bags kit, high pressure per OSD	(1) Pressure Regulator (1) Supply Hose (1) Controller (2) Hose (color coded) (2) HP Air Bags (50 ton minimum capability, any combination)			1		1
Air bags kit, low pressure per OSD	(1) Pressure Regulator (1) Supply Hose (1) Controller (1) Air Bag Hose (1) LP Air Bags (minimum 5 ton capability any combination)			1		1
Air Cylinders	SCBA bottles			10		10
Air Chisel (Optional)					1	Optional
Atmospheric monitor (Optional)					1	1
Bolt cutters	30"				2	2
Building Marking kit	Spray paint (orange) Lumber chalk (stick) Lumber crayon (red) Lumber crayon (yellow) Lumber pencil Flagging tape (1" orange or red)				1	1

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
TOOLS - continued						
Carabiners				4 (optional)	6	10
Cats paw		4	4			8
Crow bar	3'	4	4	4	2	14
Carpenter belts		10	10			20
Come-a-long	2 ton minimum			1 (optional)	1	2
Chain	20' - 3/8" - grade 7 with a grab and slip hook			1		1
Chain	10' - 3/8" - grade 7 with a grab and slip hook			1		1
Chalk line w/chalk		1	1			2
Chain saw kit - gasoline	chain adjusting tool – spare chain – spare bar – spare spark plug – bar oil	1				1
Chain saw kit - electric	chain adjusting tool – spare chain – spare bar – bar oil		1			1
Cutting torch kit: Plasma cutter or exothermic or oxy/acetylene or gasoline	Rods – tips – strikers – tip cleaning tools Burner's goggles – burner's gloves – burner's jacket				1	1
Cutting torch	Oxy/acetylene, or oxy/gasoline, or exothermic, or plasma				1	1
Circular saw kit - 7 ¼"	spare carbide tip – blade replacement wrench	1	1			2
Circular saw kit - 10 ¼" (Beam saw)	40 tooth spare carbide tip – blade replacement wrench	1	1			2
Demolition hammer, small with chisel and bull point bits	35 - 45 lbs - electric, hydraulic, pneumatic or gasoline				1	1
Demolition hammer, large with chisel and bull point bits	60 lbs minimum - electric, hydraulic, pneumatic or gasoline				1	1
Drill kit	½" variable speed w/bits(1/2", ¾", 1"	1			1	2
Extension cord w/adapters	50' – 12/3 – 20 amp	2	2		4	8
Ellis clamps	4" x 4"		8			8
Ellis jack			1			1
Ellis post screw jack	4" x 4"		4			4

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
TOOLS - continued						
Framing hammer	16 oz or larger	10	10			20
Framing square	24”	2	2			4
Fork lift or front loader	15,000 lbs. minimum			1		1
Generator, portable or 110 v power supply	5 kw minimum with 5 gallons of fuel in safety fuel can	1	1		1	3
High lift jack				1		1
Level	4’	1	1			2
Level	6”	12	12			24
Lumber crayon	Red or blue	6	6	2		14
Lumber pencil		12	12	2		26
Nail gun, powder actuated (Optional, certification required)		1	1			2
Nail gun, pneumatic, framing type	With pneumatic, gas, or compressor, or bottles Appropriate hoses 100’+ – 2 regulators – 2 gun oil	1	1			2
Pneumatic shore kit (Optional / If available)	2’ – 6’ regulator – hose – extensions and ends	3 each	3 each			6
Pipe, steel	Schedule 40 - 6’ x 1 ½”			8		8
Pipe cutter (Optional)	2” capacity					
Pry bar, pinch point	60”			6	2	8
Rebar cutter	¾” electric / hydraulic,				1	1
Rotary saw - gasoline	14” or 16” belt adjusting tool –spare belt – spare spark plug				2	2
Rotary saw blades	14/16” carbide wood cutting				4	4
Rotary saw blades	14/16” metal cutting				4	4
Rotary saw blades	14/16” diamond blade				4	4
Rotary hammer	(1) Rotary Hammer (1 ½” electric w/ depth range capability)	1			2	3
Reciprocating saw electric	Electric w/ blades 6 – metal 6 - wood	1	1		1	3
Reciprocating saw cordless (Optional)	Cordless w/blades, battery charger and battery 6 – metal 6 - wood	1	1		1	

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
TOOLS - continued						
Rope Kit (optional)	(1) Rope, Static Kernmantle (75' utility) (3) Orange Webbing (20') (1) Green Webbing (5') (3) Pulley, Rescue (2" or 4") (2) Prusik Cord			1		1
Single jack hammer	3 - 4 lbs	4	4		2	10
Sledge hammer	8 - 10 lbs	1	1	optional	2	4
Speed square		12	12			24
Shovel	Round point	1				1
Shovel	Square point	1				1
Tape measures	25'	12	12	2	2	28
Technical search device - Optional	Optical instrument with articulating viewing				1	1
Tool kit	Misc. tools					1
Utility knife	Razor knife w/ spare blades	12	12			24
Utility rope	100'				1	1
Ventilation fan with 20' ducting (optional)					1	1
Water can	Pressurized				1	1
Webbing	1" - 15' long				8	8

Item	Description	Exterior Shoring	Interior Shoring	Heaving Objects	Breaking and Breaching	Total
PROPS						
Concrete - slabs	4' x 4' x 6" #3 rebar 12" on center 2,500 psi 5 sack mix				12	12
Concrete - slabs	4' x 4' x 3" #3 rebar 12" on center 2,500 psi 5 sack mix				12	12
Concrete - pipe	48" x 8'				2	2
Steel - plates	¼" x 4' x 8' *can be scrap				2	2
Steel – I Beam	Various lengths * can be scrap				2	2
Steel – wire rope	½" x 10'				1	1
Steel – Q decking	10' x 2' x 20 gauge				2	2
Wood – dunnage	4" x 4" x 8'				12	12
Concrete slabs	5' x 8' x 12" reinforced concrete slabs (6,000 lbs. each)			2		2
Concrete slabs	5' x 10' x 6"			1		1
Pipe shaped props	4' x 8', solid reinforced concrete cylinder (15,000 lbs)			1		1

Note: Refer to the current SFT Procedures Manual for any updates or changes to this document.